

DYLAN BAKER

Victoria, BC | 778-584-3535 | dylanebaker@gmail.com | dylanebaker.com | github.com/dylanebaker

EDUCATION

Computer Engineering, BEng

University of Victoria | Sept 2025 – Present

Relevant coursework: Digital Design, Linear Circuits, Time Signals, Electricity & Magnetism, Engineering Design

Engineering Transfer, Certificate

Camosun College | Sept 2024 – June 2025

Ike Barber Transfer Scholarship recipient

TECHNICAL SKILLS

Hardware: DMM, Oscilloscope, Soldering, Arduino, PCB Etching, Breadboard

Programming: C, C++, Python

Software & Tools: MATLAB, SolidWorks, KiCAD, Git, MS365

PROJECTS

FM Radio Receiver [In Progress]

KiCAD, C, Microcontroller - ECE299 Engineering Design

Designing a full FM radio receiver circuit for the ECE299 capstone. Produced schematics and a custom PCB layout in KiCAD around an RDA5807M tuner IC; implementing embedded firmware for tuner control and user interface.

Pattern Recognition Game

Python, PyGame, Microcontroller, PCB Etching, Soldering

Built a sequence-based memory game in two forms: a custom-etched and soldered PCB console (microcontroller, LEDs, tactile buttons) and a Python/PyGame application. Implemented escalating difficulty, dynamic sequence generation, and strict input validation.

Sorting Algorithm Visualizer

Python, PyGame

Visualizes six sorting algorithms in real time using color-coded bars and an audio feedback system mapping array values to pitches, providing simultaneous auditory and visual feedback of each comparison and swap.

Air Compressor-Powered Flywheel

SolidWorks, Metal Lathe, Mill

Designed a pneumatic flywheel engine in SolidWorks (part modeling, assemblies, motion studies) and machined all components to tolerance using a lathe, mill, and drill press. Achieved highest RPM in the class cohort.

WORK EXPERIENCE

Owner & Operator June 2022 – Present

GameTime Painting | Victoria, BC

- Managed a 3-person crew across 50+ residential and commercial painting contracts, handling all client estimates, scheduling, invoicing, and payroll.
- Built lasting relationships with contractors and suppliers; developed strong project management and client communication skills.

Lift Station Supervisor Dec 2021 – Apr 2022

Mount Washington Ski Resort | Courtenay, BC

- Supervised crew rotations and break coverage across lift operations; completed daily inspection logs confirming compliance with resort safety protocols.

Sous-Chef Sept 2019 – Sept 2021

Sooke Bistro | Sooke, BC

- Trained and supervised junior kitchen staff; managed inventory and supply ordering to minimize waste and control food costs.

AWARDS & SCHOLARSHIPS

- Ike Barber Transfer Scholarship (2025)
- Agnes Donachie Britton Math Award (2025)
- Rotary Club of Victoria – Harbourside Legacy Bursary (2025)
- Coast Capital Savings Credit Union Bursary (2024)
- Victoria Foundation – Olga Yakimovich Fund (2024)